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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,086	04/27/2001	LaSalle R Swenson	105414	9706
23490	7590 01/27/2004		EXAM	INER.
JOHN G TOLOMEI, PATENT DEPARTMENT UOP LLC			ALEXANDER, LYLE	

25 EAST ALGONOUIN ROAD P O BOX 5017

DES PLAINES. IL 60017-5017

ART UNIT PAPER NUMBER 1747

DATE MAILED: 01/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)	
000-1-11	09/844,096 SWENSON ET AL.		
Office Action Summary	Examiner	Art Unit	
	Lyle A Alexander	1743	
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICATI	ION. FR 1.196(a). In no event, however, may a n		

- Responsive to communication(s) filed on 29 October 2003.
- 2a) This action is FINAL 2b) This action is non-final
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) is/are allowed.
- Claim(s) 1-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 - Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a) Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d)

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of
 - 1. Certified copies of the priority documents have been received
 - 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received

- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet,
 - 37 CFR 1 78 a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet, 37 CFR 1.78.

Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)

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Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by WO 98/15813

See the appropriate paragraph of the 5/13/03 final office action for the teachings of WO 98/15813.

Applicants' 10/29/03 amendments describe various surface properties that are measured. Among the newly claimed properties are relative adsorptivity, porosity, pore size, pore density, pore volume and pore shape. WO 98/15613 teaches on page 14 lines 17-22 properties that can be measured which include 'permeability'.

The Office understands permeability to mean the rate of diffusion through a material. The physical characteristic that determines permeability is directly related to porosity and subsequent pore sizes/characteristics of the material and thus anticipatory of the instant claims

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obvicusness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at rea such that the subject matter as a whole would have been obvious at the time invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the liveration was made.

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The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/15813.

See WO 98/15813 supra.

WO 98/15813 is silent to detection of the characteristics relative adsorptivity, porosity, pore size, pore density, pore volume and pore shape.

The court decided In re Boesch (205 USPQ 215) that optimization of a result effective variable is ordinarily within the skill of the art. A result effective variable is one that has predictable and well-known results. The permeability of a material is a result. Application/Control Number: 09/844,086 Art Unit: 1743

effective variable dependent upon the porosity and subsequent pore sizes/characteristics of the material. Further, it is desirable to determine the porosity of a material to know the flow rate of fluid flow there through and the amount of fluid adsorbed by the material when designing a test device.

If permeability is not an identical expression of the above claimed characteristics, it is sufficiently related that it would have been within the skill of the art to correlate porosity to relative adsorptivity, porosity, pore size, pore density, pore volume and pore shape as optimization of a result effective variable and to gain the above advantages.

Response to Arguments

Applicant's arguments filed 10/29/03 have been fully considered but they are not persuasive. ***

Applicants state WO 98/15813 fails to teach detection of the presently claimed physical characteristics. WO 98/15813 teaches on page 14 lines 17-22 determination of permeability which is identical to or an obvious modification of the claimed relative adsorptivity, porcesity, pore size, pore density, pore volume and pore shape as described above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lyle A Alexander whose telephone number is 571-272-1254. The examiner can normally be reached on Monday, Wednesday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Lyle A Alexander Primary Examiner Art Unit 1743
